

0570

0702 #6



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## RAW SEQUENCE LISTING

DATE: 06/28/2002

PATENT APPLICATION: US/10/053,355A

TIME: 11:18:29

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF3\06282002\J053355A.raw

3 <110> APPLICANT: Rossi, Alex  
 5 <120> TITLE OF INVENTION: Production of Cultured Human Mast Cells and Basophils for  
 High Throughput  
 6 Small Molecule Drug Discovery  
 8 <130> FILE REFERENCE: A-70882/RMS/AMS  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/053,355A  
 C--> 10 <141> CURRENT FILING DATE: 2002-06-18  
 10 <150> PRIOR APPLICATION NUMBER: US 60/316,723  
 11 <151> PRIOR FILING DATE: 2001-08-31  
 13 <160> NUMBER OF SEQ ID NOS: 42  
 15 <170> SOFTWARE: PatentIn version 3.1  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 156  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Homo sapiens  
 22 <400> SEQUENCE: 1  
 24 Met Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe  
 25 1 5 10 15  
 28 Ala Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro  
 29 20 25 30  
 32 Val Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu  
 33 35 40 45  
 36 Trp Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val  
 37 50 55 60  
 40 Ala Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile  
 41 65 70 75 80  
 44 His Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg  
 45 85 90 95  
 48 Phe Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln  
 49 100 105 110  
 52 Leu Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys  
 53 115 120 125  
 56 Leu Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp  
 57 130 135 140  
 60 Ser Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala  
 61 145 150 155  
 64 <210> SEQ ID NO: 2  
 65 <211> LENGTH: 165  
 66 <212> TYPE: PRT  
 67 <213> ORGANISM: Homo sapiens  
 69 <400> SEQUENCE: 2  
 71 Met Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val  
 72 1 5 10 15  
 75 Thr Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys

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```

76          20          25          30
79 Tyr Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu
80          35          40          45
83 Met Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe
84          50          55          60
87 Ser Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu
88 65          70          75          80
91 Val Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser
92          85          90          95
95 Lys Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr
96          100          105          110
99 Pro Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys
100          115          120          125
103 Asp Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr
104          130          135          140
107 Leu Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met
108 145          150          155          160
111 Leu Pro Pro Val Ala
112          165
115 <210> SEQ ID NO: 3
116 <211> LENGTH: 184
117 <212> TYPE: PRT
118 <213> ORGANISM: Homo sapiens
120 <400> SEQUENCE: 3
122 Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val Ala Ala Pro His Arg
123 1          5          10          15
126 Gln Pro Leu Thr Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile
127          20          25          30
130 Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn
131          35          40          45
134 Met Cys Glu Ser Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu
135          50          55          60
138 Pro Lys Met Ala Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu
139 65          70          75          80
142 Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val
143          85          90          95
146 Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala
147          100          105          110
150 Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys
151          115          120          125
154 Lys Ala Lys Asn Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn
155          130          135          140
158 Ala Ser Leu Leu Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Gln Asp
159 145          150          155          160
162 Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys Glu Phe Leu Gln Ser
163          165          170          175
166 Ser Leu Arg Ala Leu Arg Gln Met
167          180
170 <210> SEQ ID NO: 4

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171 <211> LENGTH: 130
172 <212> TYPE: PRT
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 4
177 Met His Lys Cys Asp Ile Thr Leu Gln Glu Ile Ile Lys Thr Leu Asn
178 1 5 10 15
181 Ser Leu Thr Glu Gln Lys Thr Leu Cys Thr Glu Leu Thr Val Thr Asp
182 20 25 30
185 Ile Phe Ala Ala Ser Lys Asn Thr Thr Glu Lys Glu Thr Phe Cys Arg
186 35 40 45
189 Ala Ala Thr Val Leu Arg Gln Phe Tyr Ser His His Glu Lys Asp Thr
190 50 55 60
193 Arg Cys Leu Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu
194 65 70 75 80
197 Ile Arg Phe Leu Lys Arg Leu Asp Arg Asn Leu Trp Gly Leu Ala Gly
198 85 90 95
201 Leu Asn Ser Cys Pro Val Lys Glu Ala Asn Gln Ser Thr Leu Glu Asn
202 100 105 110
205 Phe Leu Glu Arg Leu Lys Thr Ile Met Arg Glu Lys Tyr Ser Lys Cys
206 115 120 125
209 Ser Ser
210 130
213 <210> SEQ ID NO: 5
214 <211> LENGTH: 134
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapiens
218 <400> SEQUENCE: 5
220 Met Ala Pro Met Thr Gln Thr Thr Ser Leu Lys Thr Ser Trp Val Asn
221 1 5 10 15
224 Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys Gln Pro Pro
225 20 25 30
228 Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp Gln Asp Ile
229 35 40 45
232 Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala Phe Asn Arg
233 50 55 60
236 Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser Ile Leu Lys
237 65 70 75 80
240 Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro Thr Arg His
241 85 90 95
244 Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg Arg Lys Leu
245 100 105 110
248 Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln Gln Thr Thr
249 115 120 125
252 Leu Ser Leu Ala Ile Phe
253 130
256 <210> SEQ ID NO: 6
257 <211> LENGTH: 61
258 <212> TYPE: PRT
259 <213> ORGANISM: Artificial sequence

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Input Set : A:\PTO.PG.txt

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261 <220> FEATURE:
262 <223> OTHER INFORMATION: coiled-coil presentation structure
264 <400> SEQUENCE: 6
266 Met Gly Cys Ala Ala Leu Glu Ser Glu Val Ser Ala Leu Glu Ser Glu
267 1      5      10      15
270 Val Ala Ser Leu Glu Ser Glu Val Ala Leu Gly Arg Gly Asp Met
271      20      25      30
274 Pro Leu Ala Ala Val Lys Ser Lys Leu Ser Ala Val Lys Ser Lys Leu
275      35      40      45
278 Ala Ser Val Lys Ser Lys Leu Ala Ala Cys Gly Pro Pro
279      50      55      60
282 <210> SEQ ID NO: 7
283 <211> LENGTH: 6
284 <212> TYPE: PRT
285 <213> ORGANISM: Artificial sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: loop structure of coiled-coil presentation structure
290 <400> SEQUENCE: 7
292 Gly Arg Gly Asp Met Pro
293 1      5
296 <210> SEQ ID NO: 8
297 <211> LENGTH: 69
298 <212> TYPE: PRT
299 <213> ORGANISM: Artificial sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: minibody presentation structure
304 <400> SEQUENCE: 8
306 Met Gly Arg Asn Ser Gln Ala Thr Ser Gly Phe Thr Phe Ser His Phe
307 1      5      10      15
310 Tyr Met Glu Trp Val Arg Gly Gly Glu Tyr Ile Ala Ala Ser Arg His
311      20      25      30
314 Lys His Asn Lys Tyr Thr Thr Glu Tyr Ser Ala Ser Val Lys Gly Arg
315      35      40      45
318 Tyr Ile Val Ser Arg Asp Thr Ser Gln Ser Ile Leu Tyr Leu Gln Lys
319      50      55      60
322 Lys Lys Gly Pro Pro
323 65
326 <210> SEQ ID NO: 9
327 <211> LENGTH: 7
328 <212> TYPE: PRT
329 <213> ORGANISM: Simian virus 40
331 <400> SEQUENCE: 9
333 Pro Lys Lys Lys Arg Lys Val
334 1      5
337 <210> SEQ ID NO: 10
338 <211> LENGTH: 6
339 <212> TYPE: PRT
340 <213> ORGANISM: Homo sapiens
342 <400> SEQUENCE: 10

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## RAW SEQUENCE LISTING

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Input Set : A:\PTO.PG.txt

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```

344 Ala Arg Arg Arg Arg Pro
345 1 5
348 <210> SEQ ID NO: 11
349 <211> LENGTH: 10
350 <212> TYPE: PRT
351 <213> ORGANISM: Mus musculus
353 <400> SEQUENCE: 11
355 Glu Glu Val Gln Arg Lys Arg Gln Lys Leu
356 1 5 10
359 <210> SEQ ID NO: 12
360 <211> LENGTH: 9
361 <212> TYPE: PRT
362 <213> ORGANISM: Mus musculus
364 <400> SEQUENCE: 12
366 Glu Glu Lys Arg Lys Arg Thr Tyr Glu
367 1 5
370 <210> SEQ ID NO: 13
371 <211> LENGTH: 20
372 <212> TYPE: PRT
373 <213> ORGANISM: Xenopus laevis
375 <400> SEQUENCE: 13
377 Ala Val Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys
378 1 5 10 15
381 Lys Lys Leu Asp
382 20
385 <210> SEQ ID NO: 14
386 <211> LENGTH: 31
387 <212> TYPE: PRT
388 <213> ORGANISM: Mus musculus
390 <400> SEQUENCE: 14
392 Met Ala Ser Pro Leu Thr Arg Phe Leu Ser Leu Asn Leu Leu Leu Leu
393 1 5 10 15
396 Gly Glu Ser Ile Leu Gly Ser Gly Glu Ala Lys Pro Gln Ala Pro
397 20 25 30
400 <210> SEQ ID NO: 15
401 <211> LENGTH: 21
402 <212> TYPE: PRT
403 <213> ORGANISM: Homo sapiens
405 <400> SEQUENCE: 15
407 Met Ser Ser Phe Gly Tyr Arg Thr Leu Thr Val Ala Leu Phe Thr Leu
408 1 5 10 15
411 Ile Cys Cys Pro Gly
412 20
415 <210> SEQ ID NO: 16
416 <211> LENGTH: 51
417 <212> TYPE: PRT
418 <213> ORGANISM: Mus musculus
420 <400> SEQUENCE: 16
422 Pro Gln Arg Pro Glu Asp Cys Arg Pro Arg Gly Ser Val Lys Gly Thr

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/053,355A

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:40; Xaa Pos. 3,4,5,6

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

**VERIFICATION SUMMARY**

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Input Set : A:\PTO.PG.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0